

COOPER LIGHTING - METALUX®

DESCRIPTION

The DI Series is an energy efficient family of industrials that feature premium performance and durability. The industrial series incorporates heavy duty, embossed, reflectors that precisely direct and effectively control light. The versatile DI Series can be installed using various mounting methods and numerous options and accessories are available.

The DI Series can be utilized in simple task and area lighting to the most demanding industrial applications.

| Catalog # | Type |
|-------------|------|
| Project | |
| Comments | Date |
| Prepared by | |

SPECIFICATION FEATURES

A ... Construction

Channel is code gauge prime cold rolled steel. Die formed with deep V-grooves for tong hanger. Die formed channel connector assures straight rows and continuity of ground through set screws. Numerous KOs for ease of installation. Lampholder mounting brackets are easily inserted with snap-in action.

B ... Electrical*

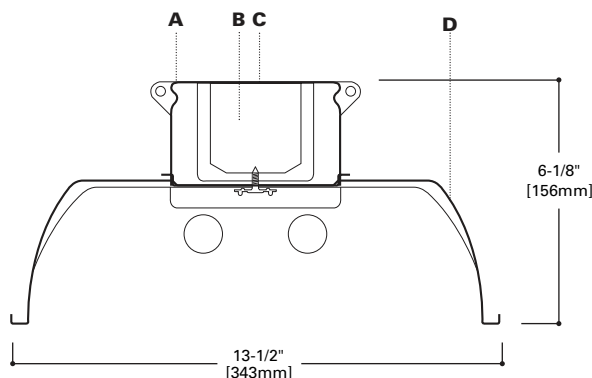
Ballast are CBM/ETL Class "P" and positively secured by mounting bolts. Spring loaded lampholders. UL/CUL listed. Suitable for damp locations.

C ... Finish

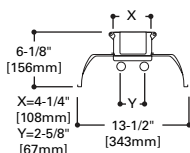
Multistage iron phosphate pretreatment ensures maximum bonding and rust inhibitor. Lighting grade, baked white enamel finish.

D ... Reflectors

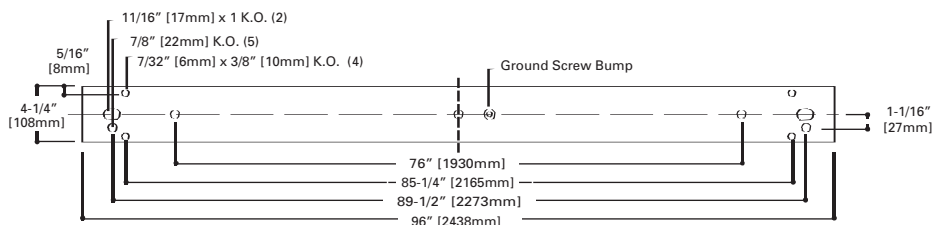
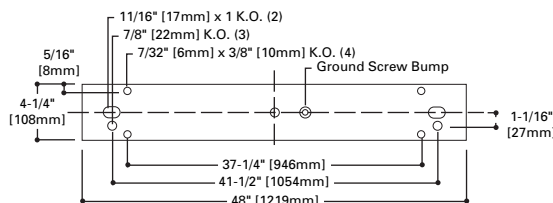
Die formed prime steel, code gauge. Deep draw full width ribs formed with one press stroke. Side flanges lend strength with upward turn. Easily cleaned. Baked white enamel 13-1/2" width. Four foot sections. Reflectors secured by positive retaining screw. Reflector aligners provided. Standard with 6% uplight (DI). Closed top reflector (DCI).



LAMP CONFIGURATIONS



MOUNTING DATA



DI
248HO
296HO
248T8HO
296T8HO

4' OR 8' INDUSTRIAL
2 LAMP
HIGH OUTPUT, 800 MA
Medium Duty Industrial

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

248T8HO (99)

296HO (208)

296T8HO (160)

ES Ballast & STD Lamps

296HO (257)

STD Ballast & STD Lamps

248HO (145)

Luminaire Efficacy Rating

LER = FL-54

Catalog Number: DI-296HO

Yearly Cost of 1000 lumens,

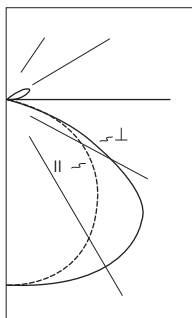
3000 hrs at .08 KWH = \$4.44

*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT
Safe and convenient means of disconnecting power





DI-296HO
Energy Saving Ballast
F96T12/CW/HO/WM
Lamps
8000 Lumens

Spacing criterion:
(II) 1.3 x mounting
height, (⊥) 1.6 x
mounting height
Efficiency 83.4%

Test Report:
DI296HO.IES

LER = FI-54

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$4.44

Coefficients of Utilization

| | | Effective floor cavity reflectance | | | | | | | | | | | | 20% | | | | | | | | | | | |
|-----|----|------------------------------------|----|----|----|-----|----|----|----|-----|----|----|--|-----|----|----|--|-----|----|----|--|----|----|----|---|
| | | 80% | | | | 70% | | | | 50% | | | | 30% | | | | 10% | | | | 0% | | | |
| rc | | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | | 50 | 30 | 10 | | 50 | 30 | 10 | | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 98 | 98 | 98 | 98 | 98 | 95 | 95 | 95 | 95 | 90 | 90 | 90 | | 85 | 85 | 85 | | 80 | 80 | 80 | | 78 | | | |
| 1 | 89 | 85 | 81 | 78 | | 86 | 83 | 79 | 76 | 78 | 75 | 73 | | 74 | 72 | 70 | | 70 | 68 | 67 | | 65 | | | |
| 2 | 81 | 74 | 68 | 63 | | 78 | 72 | 66 | 62 | 68 | 63 | 59 | | 64 | 60 | 57 | | 61 | 58 | 55 | | 53 | | | |
| 3 | 73 | 64 | 57 | 51 | | 71 | 62 | 56 | 51 | 59 | 54 | 49 | | 56 | 51 | 47 | | 53 | 49 | 46 | | 44 | | | |
| 4 | 67 | 56 | 49 | 43 | | 64 | 55 | 48 | 42 | 52 | 46 | 41 | | 49 | 44 | 40 | | 47 | 43 | 39 | | 37 | | | |
| 5 | 61 | 50 | 42 | 36 | | 59 | 49 | 41 | 36 | 46 | 40 | 35 | | 44 | 38 | 34 | | 42 | 37 | 33 | | 31 | | | |
| 6 | 56 | 45 | 37 | 31 | | 54 | 43 | 36 | 31 | 41 | 35 | 30 | | 39 | 34 | 30 | | 38 | 33 | 29 | | 27 | | | |
| 7 | 52 | 40 | 33 | 27 | | 50 | 39 | 32 | 27 | 37 | 31 | 27 | | 36 | 30 | 26 | | 34 | 29 | 25 | | 24 | | | |
| 8 | 48 | 36 | 29 | 24 | | 46 | 36 | 29 | 24 | 34 | 28 | 23 | | 23 | 27 | 23 | | 31 | 26 | 23 | | 21 | | | |
| 9 | 45 | 33 | 26 | 21 | | 43 | 30 | 26 | 21 | 31 | 25 | 21 | | 30 | 24 | 21 | | 29 | 24 | 20 | | 19 | | | |
| 10 | 42 | 31 | 24 | 19 | | 40 | 30 | 23 | 19 | 29 | 23 | 19 | | 28 | 22 | 18 | | 27 | 22 | 18 | | 17 | | | |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixture |
|--------|--------|-------|----------|
| 0-30 | 2867 | 17.9 | 21.5 |
| 0-40 | 4896 | 30.6 | 36.7 |
| 0-60 | 9581 | 59.9 | 71.8 |
| 0-90 | 12505 | 78.2 | 93.7 |
| 90-180 | 844 | 5.3 | 6.3 |
| 0-180 | 13349 | 83.4 | 100.0 |

Candela

| Angle | Along II | 45° | Across ⊥ |
|-------|----------|------|----------|
| 0 | 3485 | 3485 | 3485 |
| 10 | 3453 | 3457 | 3528 |
| 20 | 3288 | 3404 | 3581 |
| 30 | 3010 | 3325 | 3603 |
| 40 | 2642 | 3172 | 3588 |
| 50 | 2169 | 2973 | 3333 |
| 60 | 1629 | 2541 | 2357 |
| 70 | 1013 | 1456 | 1103 |
| 80 | 405 | 330 | 300 |
| 90 | 21 | 59 | 46 |
| 100 | 5 | 169 | 143 |
| 110 | 7 | 334 | 358 |
| 120 | 12 | 251 | 510 |
| 130 | 17 | 100 | 322 |
| 140 | 22 | 53 | 123 |
| 150 | 23 | 33 | 55 |
| 160 | 21 | 18 | 32 |
| 170 | 21 | 15 | 18 |
| 180 | 20 | 20 | 20 |

ORDERING INFORMATION

SAMPLE NUMBER: DI-296T8HO-120V-EB81-U

| | | | | | |
|---|--|---|--|--|--|
| Tandem Blank=4' Length 8T=8' Length | Number of Lamps 2 Lamps (Not included) | Wattage (Length) 48HO=60W T12 (48") HO 48T8HO=44W T8 (48") HO 96HO=95/110W T12 (96") HO 96T8HO=86W T8 (96") HO | Ballast Type ⁽¹⁾ EB8 =T8 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB8 /PLUS=T8 Electronic Instant Start. High Ballast Factor >1.13. Total Harmonic Distortion < 20% No. of Ballast 1, 2 or 3 ER8 =T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB2 =T12 Electronic Rapid Start. No. of Ballast 1 or 2 | Options RIF1=Radio Interference Suppressor 6-3/18 SJT-C&P-515P=Cord & Plug (120V) 6-3/18 SJT-C&P- L715P=Cord & Plug (277V) PI/CPI=Plug-In Option TILW=Tandem In-Line Wiring Option (Consult TILW Option Catalog Page) POX=Porlux Finish (See options & accessories) | Packaging U=Unit Pack 4B=4 Bulk |
| Series DI=Apertured Reflector DCI=Closed Top Reflector | Voltage ⁽¹⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt UNV=Universal Voltage 120-277 ⁽²⁾ | Options GL=Single Element Fuse GM=Double Element Fuse Emergency=EM Installed | NOTES: ⁽¹⁾ Products also available in non-US voltages and frequencies for international markets. ⁽²⁾ Not available when specifying emergencies, voltage must be specific. | | |

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

ACCESSORIES (Order Separately)

A1B/Spacer-U=Spacer 1-1/2" to 2-1/2" from ceiling
(Use 2 per fixture)
ATG-4=Tong Hanger (Use 2 per fixture)
SCF=Fixed Stem Set (Specify Length)
SCS=Swivel Stem Set (Specify Length)
SCA=Adjustable 48" Stem Set
AYC=Chain/Set-U =Chain Hanger Set (Use 1 set per fixture)
WG/DI-4FT-U²=Wire Guard
WGG/DI-4FT-U²=Wire Gym Guard
MECL-DI/SL-48-U=Metal Egg Crate Louver
MECL-DI/SL-96-U=Metal Egg Crate Louver
DI2=Long Connector
CEP=Closed End Plate
(Additional Accessories Available. See Options and Accessories Section).

SHIPPING INFORMATION

| Catalog No. | Wt. |
|-------------|---------|
| DI-248HO* | 19 lbs. |
| DI-296T8HO | 33 lbs. |